



amdt C

SEQUENCE LISTING

<110> Newell, Martha K

<120> Methods and products for manipulating uncoupling protein expression

<130> V00139.70059.US

<140> 09/599,760

<141> 2000-06-22

<150> US 60/140,574

<151> 1999-06-23

<160> 19

<170> PatentIn version 3.2

<210> 1

<211> 924

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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TECH. CENTER 1600/2900

C4

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35 40 45

Thr Ser Ser Val Ile Arg Tyr Lys Gly Val Leu Gly Thr Ile Thr Ala
50 55 60

Val Val Lys Thr Glu Gly Arg Met Lys Leu Tyr Ser Gly Leu Pro Ala
65 70 75 80

Gly Leu Gln Arg Gln Ile Ser Ser Ala Ser Leu Arg Ile Gly Leu Tyr
85 90 95

Asp Thr Val Gln Glu Phe Leu Thr Ala Gly Lys Glu Thr Ala Pro Ser
100 105 110

Leu Gly Ser Lys Ile Leu Ala Gly Leu Thr Thr Gly Gly Val Ala Val
115 120 125

Phe Ile Gly Gln Pro Thr Glu Val Val Lys Val Arg Leu Gln Ala Gln
130 135 140

Ser His Leu His Gly Ile Lys Pro Arg Tyr Thr Gly Thr Tyr Asn Ala
145 150 155 160

Tyr Arg Ile Ile Ala Thr Thr Glu Gly Leu Thr Gly Leu Trp Lys Gly
165 170 175

Thr Thr Pro Asn Leu Met Arg Ser Val Ile Ile Asn Cys Thr Glu Leu
180 185 190

Val Thr Tyr Asp Leu Met Lys Glu Ala Phe Val Lys Asn Asn Ile Leu
195 200 205

Ala Asp Asp Val Pro Cys His Leu Val Ser Ala Leu Ile Ala Gly Phe
210 215 220

Cys Ala Thr Ala Met Ser Ser Pro Val Asp Val Val Lys Thr Arg Phe
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Ile Asn Ser Pro Pro Gly Gln Tyr Lys Ser Val Pro Asn Cys Ala Met
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Lys Val Phe Thr Asn Glu Gly Pro Thr Ala Phe Phe Lys Gly Leu Val
260 265 270

Pro Ser Phe Leu Arg Leu Gly Ser Trp Asn Val Ile Met Phe Val Cys
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Cys Ala Thr
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 35 40 45
 Gly Pro Val Arg Ala Thr Ala Ser Ala Gln Tyr Arg Gly Val Met Gly
 50 55 60

Thr Ile Leu Thr Met Val Arg Thr Glu Gly Pro Arg Ser Leu Tyr Asn
 65 70 75 80
 Gly Leu Val Ala Gly Leu Gln Arg Gln Met Ser Phe Ala Ser Val Arg
 85 90 95
 Ile Gly Leu Tyr Asp Ser Val Lys Gln Phe Tyr Thr Lys Gly Ser Glu
 100 105 110
 His Ala Ser Ile Gly Ser Arg Leu Leu Ala Gly Ser Thr Thr Gly Ala
 115 120 125
 Leu Ala Val Ala Val Ala Gln Pro Thr Asp Val Val Lys Val Arg Phe
 130 135 140
 Gln Ala Gln Ala Arg Ala Gly Gly Gly Arg Arg Tyr Gln Ser Thr Val
 145 150 155 160
 Asn Ala Tyr Lys Thr Ile Ala Arg Glu Glu Gly Phe Arg Gly Leu Trp
 165 170 175
 Lys Gly Thr Ser Pro Asn Val Ala Arg Asn Ala Ile Val Asn Cys Ala
 180 185 190
 Glu Leu Val Thr Tyr Asp Leu Ile Lys Asp Ala Leu Leu Lys Ala Asn
 195 200 205
 Leu Met Thr Asp Asp Leu Pro Cys His Phe Thr Ser Ala Phe Gly Ala
 210 215 220
 Gly Phe Cys Thr Thr Val Ile Ala Ser Pro Val Asp Val Val Lys Thr
 225 230 235 240
 Arg Tyr Met Asn Ser Ala Leu Gly Gln Tyr Ser Ser Ala Gly His Cys
 245 250 255
 Ala Leu Thr Met Leu Gln Lys Glu Gly Pro Arg Ala Phe Tyr Lys Gly
 260 265 270
 Phe Met Pro Ser Phe Leu Arg Leu Gly Ser Trp Asn Val Val Met Phe
 275 280 285
 Val Thr Tyr Glu Gln Leu Lys Arg Ala Leu Met Ala Ala Cys Thr Ser
 290 295 300
 Arg Glu Ala Pro Phe
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<210> 5
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 ccctaaaggg actgggcaga gccttcagg actatgggtg gactgaagcc ttcagacgtg 180
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Met Ala Val Thr Cys Ala Gln Pro Thr Asp Val Val Lys Val Arg Phe
 130 135 140
 Gln Ala Ser Ile His Leu Gly Pro Ser Arg Ser Asp Arg Lys Tyr Ser
 145 150 155 160
 Gly Thr Met Asp Ala Tyr Arg Thr Ile Ala Arg Glu Glu Gly Val Arg
 165 170 175
 Gly Leu Trp Lys Gly Thr Leu Pro Asn Ile Met Arg Asn Ala Ile Val
 180 185 190
 Asn Cys Ala Glu Val Val Thr Tyr Asp Ile Leu Lys Glu Lys Leu Leu
 195 200 205
 Asp Tyr His Leu Leu Thr Asp Asn Phe Pro Cys His Phe Val Ser Ala
 210 215 220
 Phe Gly Ala Gly Phe Cys Ala Thr Val Val Ala Ser Pro Val Asp Val
 225 230 235 240
 Val Lys Thr Arg Tyr Met Asn Ser Pro Pro Gly Gln Tyr Phe Ser Pro
 245 250 255
 Leu Asp Cys Met Ile Lys Met Val Ala Gln Glu Gly Pro Thr Ala Phe
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 Tyr Lys Gly
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<223> CD2 membrane attachment domain

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Phe Val Ala Leu Leu Val Phe Tyr Ile Thr
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<210> 9
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<212> PRT
<213> Unknown

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<223> CD40 membrane attachment domain

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Ala Leu Val Val Ile Pro Ile Ile Phe Gly Ile Leu Phe Ala Ile Leu
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Leu Val Leu Val Phe Ile
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<210> 10
<211> 20
<212> PRT
<213> Unknown

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<223> Contactin membrane attachment domain

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Ile Ser Gly Ala Thr Ala Gly Val Pro Thr Leu Leu Leu Gly Leu Val
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Leu Pro Ala Pro
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<210> 11
<211> 24
<212> PRT
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<220>

<223> IL-4 receptor membrane attachment domain

<400> 11
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<220>

<223> Mannose receptor membrane attachment domain

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Val Ala Gly Val Val Ile Ile Val Ile Leu Leu Ile Leu Thr Gly Ala
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Gly Leu Ala Ala Tyr Phe Phe Tyr
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<210> 13

<211> 25

<212> PRT

<213> Unknown

<220>

<223> M-CSF receptor membrane attachment domain

<400> 13

Phe Leu Phe Thr Pro Val Val Val Ala Cys Met Ser Ile Met Ala Leu
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Leu Leu Leu Leu Leu Leu Leu Leu Leu
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<210> 14

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<212> PRT

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<223> PDGFR .beta. chain membrane attachment domain

<400> 14

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<212> PRT

<213> Unknown

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<223> PDGFR .alpha. chain membrane attachment domain

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Glu Leu Thr Val Ala Ala Ala Val Leu Val Leu Leu Val Ile Val Ser
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<210> 16
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<212> PRT
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<223> P-Selectin membrane attachment domain

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Gly Gly Thr Leu Leu Ala Leu Leu
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<211> 34
<212> PRT
<213> Unknown

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<223> Rat Thy-1

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Val Lys Cys Gly Gly Ile Ser Leu Leu Val Gln Asn Thr Ser Trp Leu
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Leu Leu Leu Leu Leu Ser Leu Ser Phe Leu Gln Ala Thr Asp Phe Ile
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Ser Leu

<210> 18
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<223> TNFR-1 membrane attachment domain

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Leu Leu Phe Ile Gly Leu Met
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<210> 19
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<223> VCAM-1 membrane attachment domain

<400> 19

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5

10

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20